

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number  
**WO 2005/093708 A1**

(51) International Patent Classification<sup>7</sup>: **G09G 5/00**

(21) International Application Number:  
PCT/US2004/005905

(22) International Filing Date: 27 February 2004 (27.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **OTIS ELEVATOR COMPANY** [US/US]; Ten Farm Springs, Farmington, CT 06032-2568 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **OH, Jae-Hyuk** [KR/US]; 5 Clearbrook Drive, Tolland, CT 06108 (US). **VECCHIOTTI, Alberto** [IT/US]; 142 Greenview Terrace, Middletown, CT 06457 (US). **MILTON-BENOIT, John, M.** [US/US]; 68 Spence Street, Springfield, MA 01104 (US). **PENG, Pei-Yuan** [—/US]; 7 Rothe Lane, Ellington, CT 06029 (US). **HOOTSMANS, Norbert, A., M.** [US/US]; 154 Great Pond Road, S. Glastonbury, CT 06073 (US).

(74) Agents: **LAPOINTE, Gregory, P.** et al.; 900 Chapel Street, Suite 1201, New Haven, CT 06510-2802 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

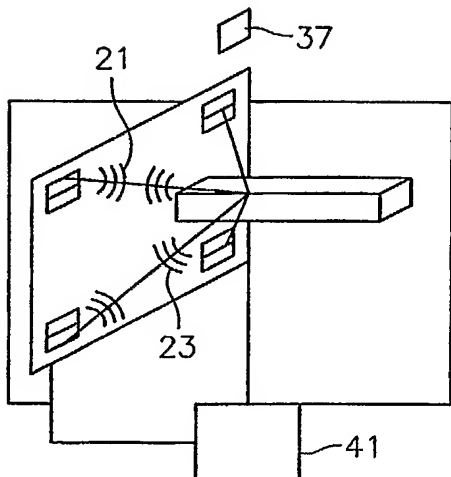
— of inventorship (Rule 4.17(iv)) for US only

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **ULTRASONIC/ELECTROMAGNETIC NON-CONTACT BUTTONS/SWITCHES FOR ELEVATORS**



(57) Abstract: A method of providing non-contact data selection, comprising the steps of providing at least one data selection, transmitting at least one signal (21) in proximity to the at least one data selection, altering the path of the at least one transmitted signal through interaction with a selection device (31), detecting at least one altered signal (23), and determining selection of the selection device from the at least one altered signal.

WO 2005/093708 A1